



ITW

Docket No.: 29137.143.00-US  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Sang Hyun LEE et al.

Confirmation No. 8072

Application No.: 10/565,887

Customer No.: 30827

Filed: August 14, 2006

Art Unit: 1754

For: HYBRID MEMBRANE-ELECTRODE  
ASSEMBLY WITH MINIMAL  
INTERFACIAL RESISTANCE AND  
PREPARATION METHOD THEREOF

Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.97**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Applicant(s) wish to disclose the following information.

**REFERENCES**

- The Applicant(s) wish to make of record the references listed on the attached PTO/SB/08. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- A check is attached in the amount required under 37 CFR § 1.17(p).

**RELATED CASES**

- Attached is a list of applicant's pending applications or issued patents which may be related to the present application. A copy of the patent(s) is attached along with PTO/SB/08.
- A check is attached in the amount required under 37 CFR § 1.17(p).

**CERTIFICATION**

The undersigned certifies that

- each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 09-180727

(43)Date of publication of application : 11.07.1997

(51)Int.Cl.

H01M 4/86

H01M 4/88

(21)Application number : 07-353454

(71)Applicant : TOKYO GAS CO LTD

(22)Date of filing : 27.12.1995

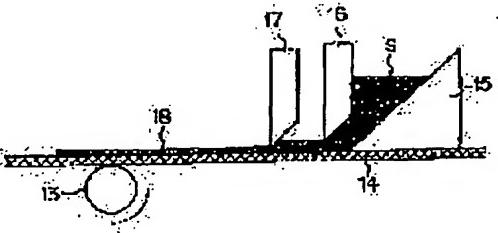
(72)Inventor : SEKI TSUTOMU

## (54) ELECTRODE FOR FUEL CELL, MANUFACTURE THEREOF, AND APPARATUS THEREFOR

### (57)Abstract:

PROBLEM TO BE SOLVED: To uniformize the thickness of a catalytic layer of an electrode, determine the optimum thickness, and prevent cracking in the catalytic layer during heating and drying in electrode producing processes.

SOLUTION: This electrode is produced by carrying a catalyst layer 18 containing a catalyst powder and an electrolytic substance or a catalyst layer 18 containing a catalyst powder, an electrolytic substance, and a water-repelling agent on a gas diffusion layer 14. The catalyst layers 18 are formed by applying slurry S with high viscosity and containing catalyst particles and nonionic surfactant or slurry S with high viscosity and containing catalyst particles, a water-repelling agent, and nonionic surfactant to the gas diffusion layer 14 while controlling the thickness of the coating, heating, and impregnating the coated surface with an electrolytic substance.



### LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

- no item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR § 1.56(c) more than three months prior to the filing of this statement.

PETITION

- Applicant(s) hereby request consideration of the attached information. A check is attached in the amount of the Petition fee required under 37 CFR § 1.17(i)(1).

DEPOSIT ACCOUNT

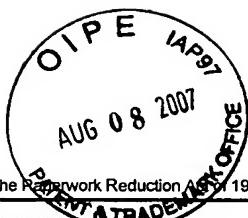
- Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to Deposit Account No. 50-0911. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

MCKENNA LONG & ALDRIDGE LLP

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Date: August 8, 2007



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Substitute for form 1449A/B/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

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of

1

Complete if Known	
Application Number	10/565,887 - Conf. #8072
Filing Date	August 14, 2006
First Named Inventor	Sang Hyun LEE
Art Unit	1754
Examiner Name	Not Yet Assigned
Attorney Docket Number	29137.143.00-US

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
AA					
AB					
AC					
AD					
AE					
AF					
AG					
AH					
AI					
AJ					

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
BA	JP 2001-345110		12-14-2001	Japan Gore Tex Inc.		
BB	JP 09-180727		07-11-1997	Tokyo Gas Co. Ltd.		
BC						
BD						
BE						
BF						
BG						

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

### NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
CA			
CB			
CC			
CD			
CE			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	Date Considered
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